

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 09/512,568  
Source: IFW16  
Date Processed by STIC: 02/14/2006

# ***ENTERED***

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/512,568DATE: 02/14/2006  
TIME: 11:29:33

INPUT SET: S30756.raw

**This Raw Listing contains the General  
Information Section and up to the first 5 pages.**

1 SEQUENCE LISTING

2

3 (1) General Information:

4 (i) APPLICANT: Hein, Mich B.

5 Hiatt, Andrew C.

6 Ma, Julian K.C.

7 (ii) TITLE OF INVENTION: TRANSGENIC PLANTS EXPRESSING ASSEMBLED

8 SECRETORY ANTIBODIES

9 (iii) NUMBER OF SEQUENCES: 26

10 (iv) CORRESPONDENCE ADDRESS:

11 (A) ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE

12 (B) STREET: 10666 North Torrey Pines Road, TPC-8

13 (C) CITY: La Jolla

14 (D) STATE: California

15 (E) COUNTRY: US

16 (F) ZIP: 92037

17 (v) COMPUTER READABLE FORM:

18 (A) MEDIUM TYPE: Floppy disk

19 (B) COMPUTER: IBM PC compatible

20 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

21 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

22 (vi) CURRENT APPLICATION DATA:

23 (A) APPLICATION NUMBER: US/09/512,568

24 (B) FILING DATE: 24-FEB-2000

--> 25 (C) CLASSIFICATION: <Unknown>

26 (vii) PRIOR APPLICATION DATA:

27 (A) APPLICATION NUMBER: US/09/199,534

28 (B) FILING DATE: 25-Nov-1998

29 (A) APPLICATION NUMBER: 08/642,406

30 (B) FILING DATE: <Unknown>

31 (A) APPLICATION NUMBER: US 07/427,765

32 (B) FILING DATE: 27-OCT-1989

33 (viii) ATTORNEY/AGENT INFORMATION:

34 (A) NAME: Logan, April C.

35 (B) REGISTRATION NUMBER: 33,950

36 (C) REFERENCE/DOCKET NUMBER: 184.2

37 (ix) TELECOMMUNICATION INFORMATION:

38 (A) TELEPHONE: (619) 554-2937

39 (B) TELEFAX: (619) 554-6312

40 (2) INFORMATION FOR SEQ ID NO: 1:

41 (i) SEQUENCE CHARACTERISTICS:

42 (A) LENGTH: 18 base pairs

43 (B) TYPE: nucleic acid

44 (C) STRANDEDNESS: single

45 (D) TOPOLOGY: linear

46 (ii) MOLECULE TYPE: DNA (genomic)

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/512,568DATE: 02/14/2006  
TIME: 11:29:33

INPUT SET: S30756.raw

47 (iii) HYPOTHETICAL: NO  
48 (iv) ANTI-SENSE: NO  
49 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
50 CCTTGACCGT AAGACATG 18  
51

52 (2) INFORMATION FOR SEQ ID NO: 2:  
53 (i) SEQUENCE CHARACTERISTICS:  
54 (A) LENGTH: 22 base pairs  
55 (B) TYPE: nucleic acid  
56 (C) STRANDEDNESS: single  
57 (D) TOPOLOGY: linear  
58 (ii) MOLECULE TYPE: DNA (genomic)  
59 (iii) HYPOTHETICAL: NO  
60 (iv) ANTI-SENSE: NO  
61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
62 AATTCATGTC TTACGGTCAA GG 22  
63

64 (2) INFORMATION FOR SEQ ID NO: 3:  
65 (i) SEQUENCE CHARACTERISTICS:  
66 (A) LENGTH: 33 base pairs  
67 (B) TYPE: nucleic acid  
68 (C) STRANDEDNESS: single  
69 (D) TOPOLOGY: linear  
70 (ii) MOLECULE TYPE: DNA (genomic)  
71 (iii) HYPOTHETICAL: NO  
72 (iv) ANTI-SENSE: NO  
73 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
74 TGTGAAAACC ATATTGAATT CCACCAATAC AAA 33  
75

76 (2) INFORMATION FOR SEQ ID NO: 4:  
77 (i) SEQUENCE CHARACTERISTICS:  
78 (A) LENGTH: 45 base pairs  
79 (B) TYPE: nucleic acid  
80 (C) STRANDEDNESS: single  
81 (D) TOPOLOGY: linear  
82 (ii) MOLECULE TYPE: DNA (genomic)  
83 (iii) HYPOTHETICAL: NO  
84 (iv) ANTI-SENSE: NO  
85 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
86 ATTTAGCACA ACATCCATGT CGACGAATTC AATCCAAAAA AGCAT 45  
87

88 (2) INFORMATION FOR SEQ ID NO: 5:  
89 (i) SEQUENCE CHARACTERISTICS:  
90 (A) LENGTH: 42 base pairs  
91 (B) TYPE: nucleic acid  
92 (C) STRANDEDNESS: single  
93 (D) TOPOLOGY: linear  
94 (ii) MOLECULE TYPE: DNA (genomic)  
95 (iii) HYPOTHETICAL: NO  
96 (iv) ANTI-SENSE: NO  
97 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
98 GGGGAGCTGG TGGTGAATT CGTCGACCTT TGTCTCTAAC AC 42  
99

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/512,568DATE: 02/14/2006  
TIME: 11:29:33

INPUT SET: S30756.raw

100 (2) INFORMATION FOR SEQ ID NO: 6:  
101 (i) SEQUENCE CHARACTERISTICS:  
102 (A) LENGTH: 30 base pairs  
103 (B) TYPE: nucleic acid  
104 (C) STRANDEDNESS: single  
105 (D) TOPOLOGY: linear  
106 (ii) MOLECULE TYPE: DNA (genomic)  
107 (iii) HYPOTHETICAL: NO  
108 (iv) ANTI-SENSE: NO  
109 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
110 CCATCCCATG GTTGAATTCA GTGTCGTCAG 30  
111

112 (2) INFORMATION FOR SEQ ID NO: 7:  
113 (i) SEQUENCE CHARACTERISTICS:  
114 (A) LENGTH: 45 base pairs  
115 (B) TYPE: nucleic acid  
116 (C) STRANDEDNESS: single  
117 (D) TOPOLOGY: linear  
118 (ii) MOLECULE TYPE: DNA (genomic)  
119 (iii) HYPOTHETICAL: NO  
120 (iv) ANTI-SENSE: NO  
121 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
122 CTGCAACTGG ACCTGCATGT CGACGAATTC AGCTCCTGAC AGGAG 45  
123

124 (2) INFORMATION FOR SEQ ID NO: 8:  
125 (i) SEQUENCE CHARACTERISTICS:  
126 (A) LENGTH: 42 base pairs  
127 (B) TYPE: nucleic acid  
128 (C) STRANDEDNESS: single  
129 (D) TOPOLOGY: linear  
130 (ii) MOLECULE TYPE: DNA (genomic)  
131 (iii) HYPOTHETICAL: NO  
132 (iv) ANTI-SENSE: NO  
133 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
134 CCTGTAGGAC CAGAGGAATT CGTCGACACT GGGATTATTT AC 42  
135

136 (2) INFORMATION FOR SEQ ID NO: 9:  
137 (i) SEQUENCE CHARACTERISTICS:  
138 (A) LENGTH: 75 base pairs  
139 (B) TYPE: nucleic acid  
140 (C) STRANDEDNESS: single  
141 (D) TOPOLOGY: linear  
142 (ii) MOLECULE TYPE: DNA (genomic)  
143 (iii) HYPOTHETICAL: NO  
144 (iv) ANTI-SENSE: NO  
145 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
146 GAATTCATTC AAGAATAGTT CAAACAAGAA GATTACAAAC TATCAATTTT ATACACAATA 60  
147 TAAACGATTA AAAGA 75  
148

149 (2) INFORMATION FOR SEQ ID NO: 10:  
150 (i) SEQUENCE CHARACTERISTICS:  
151 (A) LENGTH: 90 amino acids  
152 (B) TYPE: amino acid

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/512,568

DATE: 02/14/2006  
TIME: 11:29:33

INPUT SET: S30756.raw

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153         (D) TOPOLOGY: linear
154     (ii) MOLECULE TYPE: peptide
155     (v) FRAGMENT TYPE: N-terminal
156     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
157         Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser
158         1             5             10             15
159         Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr Ala Gln
160             20             25             30
161         Ile Pro Ala Glu Ala Val Ile Gly Tyr Ser Asp Leu Glu Gly Asp Phe
162             35             40             45
163         Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu
164             50             55             60
165         Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val
166         65             70             75             80
167         Ser Leu Asp Leu Lys Arg Asp Val Val Leu
168             85             90
169
170     (2) INFORMATION FOR SEQ ID NO: 11:
171         (i) SEQUENCE CHARACTERISTICS:
172             (A) LENGTH: 90 amino acids
173             (B) TYPE: amino acid
174             (D) TOPOLOGY: linear
175         (ii) MOLECULE TYPE: peptide
176         (v) FRAGMENT TYPE: N-terminal
177         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
178         Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser
179         1             5             10             15
180         Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr Ala Gln
181             20             25             30
182         Ile Pro Ala Glu Ala Val Ile Gly Tyr Ser Asp Leu Glu Gly Asp Phe
183             35             40             45
184         Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu
185             50             55             60
186         Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val
187         65             70             75             80
188         Ser Leu Asp Leu Lys Arg Glu Val Glu Leu
189             85             90
190
191     (2) INFORMATION FOR SEQ ID NO: 12:
192         (i) SEQUENCE CHARACTERISTICS:
193             (A) LENGTH: 16 amino acids
194             (B) TYPE: amino acid
195             (D) TOPOLOGY: linear
196         (ii) MOLECULE TYPE: peptide
197         (v) FRAGMENT TYPE: N-terminal
198         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
199         Met Glu Leu Asp Leu Ser Leu Pro Leu Ser Gly Ala Ala Gly Gly Thr
200         1             5             10             15
201
202     (2) INFORMATION FOR SEQ ID NO: 13:
203         (i) SEQUENCE CHARACTERISTICS:
204             (A) LENGTH: 31 base pairs
205             (B) TYPE: nucleic acid

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/512,568DATE: 02/14/2006  
TIME: 11:29:33

INPUT SET: S30756.raw

206 (C) STRANDEDNESS: single  
207 (D) TOPOLOGY: linear  
208 (ii) MOLECULE TYPE: DNA (genomic)  
209 (iii) HYPOTHETICAL: NO  
210 (iv) ANTI-SENSE: NO  
211 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
212 ACCAGATCTA TGGAATGGAC CTGGGTTTTT C 31  
213  
214 (2) INFORMATION FOR SEQ ID NO: 14:  
215 (i) SEQUENCE CHARACTERISTICS:  
216 (A) LENGTH: 30 base pairs  
217 (B) TYPE: nucleic acid  
218 (C) STRANDEDNESS: single  
219 (D) TOPOLOGY: linear  
220 (ii) MOLECULE TYPE: DNA (genomic)  
221 (iii) HYPOTHETICAL: NO  
222 (iv) ANTI-SENSE: NO  
223 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
224 CCCAAGCTTG GTTTTGGAGA TGGTTTTCTC 30  
225  
226 (2) INFORMATION FOR SEQ ID NO: 15:  
227 (i) SEQUENCE CHARACTERISTICS:  
228 (A) LENGTH: 31 base pairs  
229 (B) TYPE: nucleic acid  
230 (C) STRANDEDNESS: single  
231 (D) TOPOLOGY: linear  
232 (ii) MOLECULE TYPE: DNA (genomic)  
233 (iii) HYPOTHETICAL: NO  
234 (iv) ANTI-SENSE: NO  
235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
236 GATAAGCTTG GTCCTACTCC TCCTCCTCCT A 31  
237  
238 (2) INFORMATION FOR SEQ ID NO: 16:  
239 (i) SEQUENCE CHARACTERISTICS:  
240 (A) LENGTH: 30 base pairs  
241 (B) TYPE: nucleic acid  
242 (C) STRANDEDNESS: single  
243 (D) TOPOLOGY: linear  
244 (ii) MOLECULE TYPE: DNA (genomic)  
245 (iii) HYPOTHETICAL: NO  
246 (iv) ANTI-SENSE: NO  
247 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
248 AATCTCGAGT CAGTAGCAGA TGCCATCTCC 30  
249  
250 (2) INFORMATION FOR SEQ ID NO: 17:  
251 (i) SEQUENCE CHARACTERISTICS:  
252 (A) LENGTH: 30 base pairs  
253 (B) TYPE: nucleic acid  
254 (C) STRANDEDNESS: single  
255 (D) TOPOLOGY: linear  
256 (ii) MOLECULE TYPE: DNA (genomic)  
257 (iii) HYPOTHETICAL: NO  
258 (iv) ANTI-SENSE: NO

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/512,568**

DATE: 02/14/2006  
TIME: 11:29:33

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Line	Error	Original Text
25	Wrong Classification	(C) CLASSIFICATION: <Unknown>

PAGE: 1

**SEQUENCE MISSING ITEM REPORT**  
**PATENT APPLICATION US/09/512,568**

DATE: 02/14/2006  
TIME: 11:29:33

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< < THERE ARE NO ITEMS MISSING > >



PAGE: 1

**SEQUENCE CORRECTION REPORT**  
**PATENT APPLICATION US/09/512,568**

DATE: 02/14/2006  
TIME: 11:29:33

***INPUT SET: S30756.raw***

Line	Original Text	Corrected Text
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PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
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DATE: 02/14/2006  
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Line	Error	Original Text
25	Wrong Classification	(C) CLASSIFICATION: < Unknown >

PAGE: 1

**SEQUENCE MISSING ITEM REPORT**  
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PAGE: 1

**SEQUENCE CORRECTION REPORT**  
**PATENT APPLICATION US/09/512,568**

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TIME: 11:29:33

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